Listing of Claims:

(Original) A homo- or copolyoxymethylene containing the structural unit of formula I

$$-A-O-R^1-O-CO-(R^2-CO-)_m-O-$$
 (1),

where A is a radical derived from a homo- or copolyoxymethylene,

R¹ is an alkylene radical having at least two carbon atoms, or a cycloalkylene radical,

R² is a direct carbon-carbon bond, or an alkylene, cycloalkylene, arylene, or aralkylene radical, and

m is 0 or 1.

- 2. (Original) The homo- or copolyoxymethylene as claimed in claim 1, wherein m is 0.
- 3. (Original) The homo- or copolyoxymethylene as claimed in claim 1, wherein R^1 is a radical of the formula $-C_nH_{2n^-}$, where n is a whole number from 2 to 6.
- 4. (Original) The homo- or copolyoxymethylene as claimed in claim 3, wherein R¹ is -CH₂-CH₂-.
- 5. (Currently Amended) The homo- or copolyoxymethylene as claimed in claim 1, wherein the polyoxymethylene radical A has from 99.9 to 90 mol% of repeat structural units of the formula -(CH₂-O-)x, where x is a whole number from 100 to 10,000, and from 0.1 to 10 mol% of repeat structural units which derive from ethylene oxide, from propylene 1,2-oxide, from butylene 1,2-oxide, from butylene 1,3-oxide, from 1,3-dioxane, from 1,3-dioxolane, from 1,3-dioxocane, and/or from linear oligo- or polyformals.

6. (Currently Amended) The homo- or copolyoxymethylene as claimed in claim 1, wherein the polyoxymethylene radical A has from 99.9 to 90 mol% of repeat structural units of the formula -(CH₂-O)x, where x is a whole number from 100 to 10,000, and from 0.1 to 10 mol% of repeat structural units of the formula

where z is a whole number which is at least 1.

- 7. (Previously Presented) The homo- or copolyoxymethylene as claimed in claim 1, wherein the structural elements of the formula -O-CO-(R²-CO-)_m-O- derive from chain-linking agents which are selected from the group consisting of derivatives of carbonic acid or activated urea derivatieves, or from esters or half-esters of dicarboxylic acids, or from dianhydrides of tetracarboxylica acids, or from mixtures of two or more of these compounds.
- 8. (Previously Presented) The homo- or copolyoxymethylene as claimed in claim 7, wherein the structural elements of the formula -O-CO-(R²-CO-)_m-O- derive from diesters of carbonic acid.
- 9. (Original) The homo- or copolyoxymethylene as claimed in claim 7, wherein the structural elements of the formula -O-CO-(R²-CO-)_m-O- derive from diesters of oxalic acid, of the aromatic dicarboxylic acids, and/or of the aliphatic dicarboxylic acids.
- 10. (Original) The homo- or copolyoxymethylene as claimed in claim 9, wherein the structural elements of the formula -O-CO-(R²-CO-)_m-O- derive from dimethyl esters or diphenyl esters of oxalic acid, of isophthalic acid, of phthalic acid, of adipic acid, or of sebacic acid.

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- 11. (Original) The homo- or copolyoxymethylene as claimed in claim 7, wherein the structural elements of the formula -O-CO-(R²-CO-)_m-O- derive from oxybix(phthalic anhydride).
- 12. (Original) The homo- or copolyoxymethylene as claimed in claim 7, wherein the structural elements of the formula -O-CO-(R²-CO-)_m-O- derive from carbonyl N,N'-bis(caprolactamate).
- 13. (Previously Presented) The homo- or copolyoxymethylene as claimed in claim 1, whose melt index (MVR value, 190°C/2.16 kg/ISO 1133) is below 10 cm³/10 min.
- 14. (Withdrawn, Currently Amended) A process for the chain-extension of homoor copolyoxymethylenes, encompassing the reaction of homo- or copolyoxymethylenes of the formula II with at least one chain-linking agent of the formula III

$$R^4$$
-A-O- R^1 -OH (II), R^7 -CO- $(R^2$ -CO- $)_m$ - R^8 (III),

where A is a radical derived from a homo- or copolyoxymethylene,

R¹ is an alkylene radical having at least two carbon atoms, or a cycloalkylene radical,

R² is a direct carbon-carbon bond or an alkylene, cycloalkylene, arylene, or aralkylene radical,

R⁴ is a radical of the formulae formula -OH, -O-R⁵, -O-CO-R⁶, or -O-R¹-OH, where R¹ is defined at an earlier stage above,

R⁵ is an alkyl, cycloalkyl, aryl, or aralkyl radical,

R⁶ is hydrogen or an alkyl, cycloalkyl, aryl, or aralkyl radical,

m is 0 or 1, and

 R^7 and R^8 , independently, of one another, are alkoxy, cycloalkoxy, aryloxy, aralkyloxy, or a lactam radical bonded by way of the nitrogen atom, or where, in the case where m = 1, R^7 and/or R^8 together with another carboxylic acid group of the radical R^2 form an anhydride or imide group.

- 15. (Withdrawn) The process as claimed in claim 14, wherein the reaction takes place in the presence of a catalyst which is a Lewis acid or is a Lewis base.
- 16. (Withdrawn) The process as claimed in claim 15, wherein the catalyst used comprises the alkali metal or alkaline earth metal salts of acetylacetonates and/or alkali metal alkoxides.
- 17. (Withdrawn) The process as claimed in claim 14, wherein the reaction takes place at temperatures of from 100 to 240°C and the reaction time is from 0.5 to 60 minutes.
- 18. (Withdrawn) The process as claimed in claim 14, wherein the amount used of homo- or copolyoxymethylene of the formula II, per mole of chain-linking agent of the formula III, is such that the content of the end groups –O-R¹-OH present at the start of the chain-linkage reaction is in the range from on guarter of one mol to four mol.
- 19. (Withdrawn) The process as claimed in claim 14, wherein the reaction takes place at temperatures such that the reaction mixture is liquid, or such that a liquid phase forms in the reaction mixture.
- 20. (Withdrawn, Currently Amended) The process as claimed in claim 14, wherein, from a mixture of compounds of the formulae formula II and III, if appropriate of optionally a catalyst, and, optionally of other additives, a molded structure is produced and is heated in a stream of gas and/or in a vacuum for a period such that the desired

molecular weight increase has been achieved, the temperatures selected here being such that the reaction mixture is solid.

- 21. (Canceled)
- 22. (Previously Presented) The homo- or copolyoxymethylene as claimed in claim 7, wherein the structural elements of the formula -O-CO-(R²-CO-)_m-O- derive from dimethyl or diphenyl carbonate.
- 23. (Previously Presented) The homo- or copolyoxymethylene as claimed in claim 1, whose melt index (MVR value, 190°C/2.16 kg/ISO 1133) is below 2 cm³/10 min.
- 24. (Withdrawn) The process as claimed in claim 15, wherein the catalyst used comprises lithium acetylacetonate or sodium acetylacetonate, and/or sodium methoxide or lithium methoxide, and/or lithium halide and the reaction takes place at temperatures of from 150 to 220°C and the reaction time is from 0.5 to 60 minutes.
- 25. (Withdrawn, Currently Amended) A method for producing moldings, fibers, films, hoses, pipes, rods, or profiles which comprising comprises using the homo- or copolyoxymethylene as claimed in claim 1.